

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An external noise intrusion prevention device having an input terminal and an output terminal connectable terminals adapted to be connected to a coaxial cable, the external noise intrusion prevention device comprising:

a first filter circuit letting that passes a signal in a first predetermined frequency band-pass, and connects the input terminal and the output terminal connected to each other through the first filter circuit;

a second filter circuit letting that passes a signal in a second predetermined frequency band that is different from said the first predetermined frequency band-pass; and

a noise elimination circuit connected between the input terminal and the output terminal through the second filter circuit, wherein the noise elimination circuit is formed by cascading a front connection transformer and a rear connection transformer, two connection transformers each having a primary winding and a secondary winding, the two connection transformers being a front connection transformer and a rear connection transformer, wherein one end of the primary winding of the front connection transformer is connected to a core on said the input terminal side and the other end of the primary winding of the front connection transformer is connected to an input-side ground section, and wherein one end of the secondary winding of the rear connection transformer is connected to a core on said the output terminal side and the other end of the secondary winding of the rear connection transformer is connected to an output-side ground section.

2. (Currently Amended) An external noise intrusion prevention device having an input terminal and an output terminal connectable terminals adapted to be connected to a coaxial cable, the external noise intrusion prevention device comprising:

a first filter circuit letting that passes a signal in a first predetermined frequency band-pass; and connects the input terminal and the output terminal connected to each other through the first filter circuit;

a second filter circuit letting that passes a signal in a second predetermined frequency band that is different from said the first predetermined frequency band-pass; and

a noise elimination circuit connected between the input terminal and the output terminal through the second filter circuit, wherein the noise elimination circuit consists consisting of a transformer having a turns 1:1 turn ratio of 1 to 1, wherein one end of a primary winding of the transformer is connected to a core on said-the input terminal side and the other end of the primary winding is connected to an input-side ground section, and wherein one end of a secondary winding of the transformer is connected to a core on said-the output terminal side and the other terminal end of the secondary winding is connected to an output-side ground section.

3. (Previously Presented) An external noise intrusion prevention device according to claim 1, wherein the input side ground section is connected to the output-side ground section to prevent a direct current from passing.

4. (Currently Amended) A protector comprising:

an arrester; and

a choke coil, the protector preventing an abnormal voltage entering from an input terminal from flowing from an output terminal, the protector comprising ; and
an external noise intrusion prevention device having an input terminal and an output terminal adapted to be connected to a coaxial cable, the external noise intrusion prevention device comprising

a first filter circuit that passes a signal in a first predetermined frequency band and that connects the input terminal and the output terminal to each other,
a second filter circuit that passes a signal in a second predetermined frequency band that is different from the first predetermined frequency band,

and

a noise elimination circuit connected between the input terminal and the output terminal through the second filter circuit, wherein the noise elimination circuit is formed by cascading a front connection transformer and a rear connection transformer each having a primary winding and a secondary winding, wherein one end of the primary winding of the front connection transformer is connected to a core on said input terminal side and the other end of the primary winding of the front connection transformer is connected to an input-side ground section, and wherein one end of the secondary winding of the rear connection transformer is connected to a core on said output terminal side and the other end of the secondary winding of the rear connection transformer is connected to an output-side ground section according to claim 1;

the wherein the external noise intrusion prevention device is provided on an output terminal section; and

wherein the protector prevents an abnormal voltage that enters from an input terminal from flowing out the output terminal.

5. (Currently Amended) A signal amplifier provided midway along a bi-directional CATV trunk letting that allows an up signal and a down signal to pass; and amplifying amplifies at least the down signal from a center station, the signal amplifier comprising:

an external noise intrusion prevention device having an input terminal and an output terminal adapted to be connected to a coaxial cable, the external noise intrusion prevention device comprising

a first filter circuit that passes a signal in a first predetermined frequency band and that connects the input terminal and the output terminal to each other,

a second filter circuit that passes a signal in a second predetermined frequency band that is different from the first predetermined frequency band,
and

a noise elimination circuit connected between the input terminal and the

output terminal through the second filter circuit, wherein the noise elimination circuit is formed by cascading a front connection transformer and a rear connection transformer each having a primary winding and a secondary winding, wherein one end of the primary winding of the front connection transformer is connected to a core on said input terminal side and the other end of the primary winding of the front connection transformer is connected to an input-side ground section, and wherein one end of the secondary winding of the rear connection transformer is connected to a core on said output terminal side and the other end of the secondary winding of the rear connection transformer is connected to an output-side ground section according to claim 1;

wherein the external noise intrusion prevention device is provided in an output section outputting that outputs the down signal.

6-7. (Cancelled).

8. (Currently Amended) An antenna plug having two coaxial cable connection terminals provided on both ends thereof, respectively, and comprising an external noise intrusion prevention circuit device interposed between the two coaxial cable connection terminals according to claim 1, and having an input terminal and an output terminal adapted to be connected to a coaxial cable, the external noise intrusion prevention device comprising

a first filter circuit that passes a signal in a first predetermined frequency band and connects the input terminal and the output terminal to each other,

a second filter circuit that passes a signal in a second predetermined frequency band that is different from the first predetermined frequency band,
and

a noise elimination circuit connected between the input terminal and the output terminal through the second filter circuit, wherein the noise elimination circuit is formed by cascading a front connection transformer and a rear connection transformer each having a primary winding and a secondary

winding, wherein one end of the primary winding of the front connection transformer is connected to a core on said input terminal side and the other end of the primary winding of the front connection transformer is connected to an input-side ground section, and wherein one end of the secondary winding of the rear connection transformer is connected to a core on said output terminal side and the other end of the secondary winding of the rear connection transformer is connected to an output-side ground section
~~the external noise intrusion prevention device interposed between the two coaxial cable connection terminals.~~

9-10. (Cancelled).